

FORM PTO-1449		Atty. Docket No.: C382.12-0178	Appl. No.: 10/791,141
 <p>SEARCH OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT MAR 11 2005</p>		First Named Inventor:	
		Kevin I. Bertness	
		Filing Date	Group Art:
		March 2, 2004	2838

## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP AA	5,369,364	11/1994	Renirie et al.	324	430	
AP AB	6,016,047	1/2000	Notten et al.	320	137	
AP AC	6,215,275	4/2001	Bean	320	106	
AP AD	6,449,726	9/2002	Smith	713	340	

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
AP AE	JP10232273	9/02/98	Japan				X (abstract)
	AF	JP04095788	3/27/92	Japan			X (abstract)
	AG	2 387 235 A	10/2003	Great Britain			X
	AH	WO 00/16083	3/2000	WIPO			X
↓	AI	WO 00/16614 A1	3/2001	WIPO			X
↓	AJ	WO 00/16615 A1	3/2001	WIPO			X

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP AK	"Dynamic modelling of lead/acid batteries using impedance spectroscopy for parameter identification", Journal of Power Sources, pp. 69-84, (1997)
AL	"A review of impedance measurements for determination of the state-of-charge or state-of-health of secondary batteries", Journal of Power Sources, pp. 59-69, (1998)
AM	"Improved Impedance Spectroscopy Technique For Status Determination of Production Li/SO <sub>2</sub> Batteries" Terrill Atwater et al., pp.10-113, (1992)
AN	"Search Report Under Section 17" for Great Britain Application No. GB0421447.4. (1/28/05)
AO	"Results of Discrete Frequency Immittance Spectroscopy (DFIS) Measurements of Lead Acid Batteries", by K.S. Champlin et al., Proceedings of 23 <sup>rd</sup> International Teleco Conference (INTELEC), published October 2001, IEE, pgs. 433-440.
AP	"Examination Report" from the U.K. Patent Office for U.K. App. No. 0417678.0.

EXAMINER: /Aaron Piggush/ DATE CONSIDERED: 11/30/2006

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<p style="text-align: center;">LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</p> <p style="text-align: right;">DEC 17 2004 U.S. PATENT OFFICE SC105</p>		First Named Inventor:	
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## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	AA	6,777,945	8/2004	Roberts et al.	324	426
AP	AB	2003/01946 72	10/2003	Roberts et al.	431	196
AP	AC	2003/00369 09	02/2003	Kato, Yoshinaga	704	275
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					

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		Document No.	Date	Country	Class	Sub Class	Translation Yes No
	AL						
	AM						
	AN						

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AO	
AP	
AQ	

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				Kevin I. Bertness			
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				March 2, 2004	2838		
U.S. PATENT DOCUMENTS							
Examiner Initial	Document No.		Date	Name	Class	Sub Class	Filing Date If Appropriate
AP AA	RE37,677		04-2002	Irie	315	83	
AP AB	6,091,238		07-2000	McDermott	324	207.2	
AP AC	5,780,974		07-1998	Pabla et al.	315	82	
AP AD	5,912,534		06-1999	Benedict	315	82	
AP AE	5,614,788		03-1997	Mullins et al.	315	82	
AP AF	5,661,368		08-1997	Deol et al.	315	82	
AP AG	5,081,565		01-1992	Nabha et al.	362	465	
AH							
AI							
AJ							
AK							

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
AP AL		WO 97/44652	11/27/97	WIPO			
	AM						
	AN						

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	AO	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US02/29461.
	AP	
	AQ	

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10/791,141LIST OF PATENTS AND PUBLICATIONS FOR  
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DISCLOSURE STATEMENT

First Named Inventor:

Kevin I. Bertness

Filing Date

Group Art:

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## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP AA	2004/0049361	3/11/04	Hamdan et al.	702	115	
	AB	2004/0051533	3/18/04	Namaky	324	426
	AC	2004/0054503	3/18/04	Namaky	702	183
	AD	4,926,330	5/15/90	Abe et al.	364	424.03
	AE	4,949,046	8/14/90	Seyfang	324	427
	AF	5,321,627	6/14/94	Reher	364	483
	AG	5,872,453	2/16/99	Shimoyama et al.	324	431
	AH	6,037,778	3/14/00	Makhija	324	433
	AI	6,061,638	5/9/00	Joyce	702	63
	AJ	6,275,008	8/14/01	Arai et al.	320	132
	AK	6,359,442	3/19/02	Henningson et al.	324	426
	AL	6,384,608	5/7/02	Namaky	324	430
	AM	6,388,448	5/14/02	Cervas	324	426
	AN	6,396,278	5/28/02	Makhija	324	402
	AO	6,570,385	5/27/03	Roberts et al.	324	378
	AP	6,629,054	9/30/03	Makhija et al.	702	113
	AQ	D442,503	5/22/01	Lundbeck et al.	D10	77
	AR	2002/0030495	3/2002	Kechmire	324	427
	AS	4,352,067	9/1982	Ottone	324	434
	AT	4,360,780	11/1982	Skutch, Jr.	324	437
	AU	4,723,656	2/1988	Kiernan et al.	206	705
	AV	4,874,679	10/1989	Miyagawa	429	91
	AW	5,432,025	7/1995	Cox	429	65
▼	AX	5,707,015	1/1998	Guthrie	241	120

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		Kevin I. Bertness	
		Filing Date	Group Art:
		March 2, 2004	

## U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	AA	2,514,745	7/11/50	Dalzell	171	95	
	AB	3,593,099	7/13/71	Scholl	320	13	
	AC	3,607,673	9/21/71	Seyl	204	1	
	AD	3,676,770	7/11/72	Sharaf et al.	324	29.5	
	AE	3,729,989	5/1/73	Little	73	133	
	AF	3,753,094	8/14/73	Furuishi et al.	324	29.5	
	AG	3,808,522	4/30/74	Sharaf	324	29.5	
	AH	3,811,089	5/14/74	Strezelewicz	324	170	
	AI	3,873,911	3/25/75	Champlin	324	29.5	
	AJ	3,886,443	5/27/75	Miyakawa et al.	324	29.5	
↓	AK	3,889,248	6/10/75	Ritter	340	249	
	AL	3,906,329	9/16/75	Bader	320	44	

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
AP	AM	59-17892	1/30/84	Japan			Abstract Only
AP	AN	59-17893	1/30/84	Japan			Abstract Only
AP	AO	59-17894	1/30/84	Japan			Abstract Only

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	AP	"Electrochemical Impedance Spectroscopy in Battery Development and Testing", <u>Batteries International</u> , April 1997, pgs. 59 and 62-63.
AP	AQ	"Battery Impedance", by E. Willihnganz et al., <u>Electrical Engineering</u> , September 1959, pgs. 922-925.
AP	AR	"Determining The End of Battery Life", by S. DeBardelaben, <u>IEEE</u> , 1986, pgs. 365-368.
AP	AS	"A Look at the Impedance of a Cell", by S. DeBardelaben, <u>IEEE</u> , 1988, pgs. 394-397.

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	AT	3,909,708	9/30/75	Champlin	324	29.5
	AU	3,936,744	2/3/76	Perlmutter	324	158
	AV	3,946,299	3/23/76	Christianson et al.	320	43
	AW	3,947,757	3/30/76	Grube et al.	324	28
	AX	3,969,667	7/13/76	McWilliams	324	29.5
	AY	3,979,664	9/7/76	Harris	324	17
	AZ	3,984,762	10/5/76	Dowgiallo, Jr.	324	29.5
	BA	3,984,768	10/5/76	Staples	324	62
	BB	4,008,619	2/22/77	Alcaide et al.	73	398
	BC	4,053,824	10/11/77	Dupuis et al.	324	29.5
↓	BD	4,070,624	1/24/78	Taylor	327	158
	BE	4,086,531	4/25/78	Bernier	324	158

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
AP	BF	60225078	11/9/85	Japan			Abstract Only
AP	BG	04372536	12/25/92	Japan			Abstract Only
AP	BH	04131779	5/6/92	Japan			Abstract Only

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	BI	"The Impedance of Electrical Storage Cells", by N.A. Hampson et al., <u>Journal of Applied Electrochemistry</u> , 1980, pgs. 3-11.
AP	BJ	"A Package for Impedance/Admittance Data Analysis", by B. Boukamp, <u>Solid State Ionics</u> , 1986, pgs. 136-140.
AP	BK	"Precision of Impedance Spectroscopy Estimates of Bulk, Reaction Rate, and Diffusion Parameters", by J. Macdonald et al., <u>J. Electroanal. Chem.</u> , 1991, pgs. 1-11.

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Examiner Initial		Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	BL	4,112,351	9/5/78	Back et al.	324	16	
	BM	4,114,083	9/12/78	Benham et al.	320	39	
	BN	4,126,874	11/21/78	Suzuki et al.	354	60	
	BO	4,178,546	12/11/79	Hulls et al.	324	158	
	BP	4,193,025	3/11/80	Frailing et al.	324	427	
	BQ	4,207,611	6/10/80	Gordon	364	580	
	BR	4,315,204	2/9/82	Sievers et al.	322	28	
	BS	4,316,185	2/16/82	Watrous et al.	340	636	
	BT	4,322,685	3/30/82	Frailing et al.	324	429	
	BU	4,363,407	12/14/82	Barkler et al.	209	3.3	
✓	BV	4,369,407	1/18/83	Korbell	324	416	
	BW	4,412,169	10/25/83	Dell'Orto	320	64	

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
AP	BX	03282276	12/12/91	Japan			Abstract Only
AP	BY	03274479	12/5/91	Japan			Abstract Only
AP	BZ	5216550	8/27/93	Japan			Abstract Only
AP	CA	59017894	1/30/84	Japan			Abstract Only

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	CB	"Internal Resistance: Harbinger of Capacity Loss in Starved Electrolyte Sealed Lead Acid Batteries, by Vaccaro, F.J. et al., <u>AT&amp;T Bell Laboratories</u> , 1987 IEEE, Ch. 2477, pp. 128,131.
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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	CC	4,390,828	6/28/83	Converse et al.	320	32
	CD	4,392,101	7/5/83	Saar et al.	320	20
	CE	4,396,880	8/2/83	Windebank	320	21
	CF	4,408,157	10/4/83	Beaubien	324	62
	CG	4,423,378	12/27/83	Marino et al.	324	427
	CH	4,423,379	12/27/83	Jacobs et al.	324	429
	CI	4,424,491	1/3/84	Bobbett et al.	324	433
	CJ	4,459,548	7/10/84	Lentz et al.	324	158
	CK	4,514,694	4/30/85	Finger	324	429
	CL	4,520,353	5/28/85	McAuliffe	340	636
	CM	4,667,279	5/19/87	Maier	363	46
	CN	4,678,998	7/7/87	Muramatsu	324	427
↓	CO	4,679,000	7/7/87	Clark	324	428
	CP	4,697,134	9/29/87	Burkum et al.	320	48

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes	No
AP	CQ	EP 0 772 056 A1	5/7/97	EPO				X
AP	CR	EP 0 637 754 A1	2/8/95	EPO				X
AP	CS	2 088 159 A	6/3/82	Great Britain				X

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	CT	IEEE Recommended Practice For Maintenance, Testings, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations, The Institute of Electrical and Electronics Engineers, Inc., ANSI/IEEE Std. 450-1987, 3/9/1987, pp. 7-15.
AP	CU	"Field and Laboratory Studies to Assess the State of Health of Valve-Regulated Lead Acid Batteries: Part I Conductance/Capacity Correlation Studies", by D. Feder et al., IEEE, August 1992, pgs. 218-233.

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## U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	CV	4,707,795	11/17/87	Alber et al.	364	550	
	CW	4,709,202	11/24/87	Koenck et al.	320	43	
	CX	4,710,861	12/1/87	Kanner	363	46	
	CY	4,719,428	1/12/88	Liebermann	324	436	
	CZ	4,743,855	5/10/88	Randin et al.	324	430	
	DA	4,816,768	3/28/89	Champlin	324	428	
	DB	4,820,966	4/11/89	Fridman	320	32	
	DC	4,825,170	4/25/89	Champlin	324	436	
	DD	4,849,700	7/18/89	Morioka et al.	324	427	
	DE	4,881,038	11/14/89	Champlin	324	426	
	DF	4,912,416	3/27/90	Champlin	324	430	
	DG	4,929,931	5/29/90	McCuen	340	636	
	DH	4,931,738	6/5/90	MacIntyre et al.	324	435	
	DI	4,947,124	8/7/90	Hauser	324	430	
	DJ	4,956,597	9/11/90	Heavey et al.	320	14	
	DK	4,968,941	11/6/90	Rogers	324	428	

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes	No
AP	DL	WO 93/22666	11/11/93	WIPO			X	
AP	DM	WO 98/58270	12/23/98	WIPO			X	

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	DN	"Battery Impedance", by E. Willihnganz et al., <u>Electrical Engineering</u> , September 1959, pgs. 922-925.
AP	DO	"JIS Japanese Industrial Standard-Lead Acid Batteries for Automobiles", <u>Japanese Standards Association UDC</u> , 621.355.2:629.113.006, Nov. 1995.

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AP	DP	5,004,979	4/2/91	Marino et al.	324	160	
	DQ	5,032,825	7/16/91	Xuznicki	340	636	
	DR	5,047,722	9/10/91	Wurst et al.	324	430	
	DS	5,087,881	2/11/92	Peacock	324	378	
	DT	5,126,675	6/30/92	Yang	324	435	
	DU	5,140,269	8/18/92	Champlin	324	433	
	DV	5,144,248	9/1/92	Alexandres et al.	324	428	
	DW	5,170,124	12/8/92	Blair et al.	324	434	
	DX	5,204,611	4/20/93	Nor et al.	320	21	
	DY	5,214,370	5/25/93	Harm et al.	320	35	
	DZ	5,214,385	5/25/93	Gabriel et al.	324	434	
	EA	5,241,275	8/31/93	Fang	324	430	
	EB	5,254,952	10/19/93	Salley et al.	324	429	
	EC	5,281,919	1/25/94	Palanisamy	324	427	
	ED	5,281,920	1/25/94	Wurst	324	430	
	EE	5,295,078	3/15/94	Stich et al.	364	483	
	EF	5,298,797	3/29/94	Redl	307	246	
↓	EG	5,300,874	4/5/94	Shimamoto et al.	320	15	
	EH	5,302,902	4/12/94	Groehl	324	434	

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
	EI						

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AP	EK	5,331,268	7/19/94	Patino et al.	320	20
	EL	5,336,993	8/9/94	Thomas et al.	324	158.1
	EM	5,352,968	10/4/94	Reni et al.	320	35
	EN	5,343,380	8/30/94	Champlin	363	46
	EO	5,365,160	11/15/94	Leppo et al.	320	22
	EP	5,365,453	11/15/94	Startup et al.	364	481
	EQ	5,381,096	1/10/95	Hirzel	324	427
	ER	5,426,371	6/20/95	Salley et al.	324	429
	ES	5,432,426	7/11/95	Yoshida	320	20
	ET	5,434,495	7/18/95	Toko	320	44
	EU	5,442,274	8/15/95	Tamai	320	23
	EV	5,457,377	10/10/95	Jonsson	320	5
	EW	5,449,996	9/12/95	Matsumoto et al.	320	20
	EX	5,449,997	9/12/95	Gilmore et al.	320	39
	EY	5,485,090	1/16/96	Stephens	324	433
	EZ	5,519,383	5/21/96	De La Rosa	340	636
	FA	5,528,148	6/18/96	Rogers	324	426
▼	FB	5,550,485	8/27/96	Falk	324	772
	FC	5,561,380	10/1/96	Sway-Tin et al.	324	509

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FORM PTO-1449		Atty. Docket No.: C382.12-0178	Serial No.: 10/791,141
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		Applicant:	
		Kevin I. Bertness	
		Filing Date	Group Art:
		March 2, 2004	

## U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	FF	5,562,501	10/8/96	Kinoshita et al.	439	852	
	FG	5,572,136	11/5/96	Champlin	324	426	
	FH	5,574,355	11/12/96	McShane et al.	320	39	
	FI	5,585,728	12/17/96	Champlin	324	427	
	FJ	5,592,093	1/7/97	Klingbiel	324	426	
	FK	5,596,260	1/21/97	Moravec et al.	320	30	
	FL	5,598,098	1/28/97	Champlin	324	430	
	FM	5,602,462	2/11/97	Stich et al.	323	258	
	FN	5,606,242	2/25/97	Hull et al.	320	48	
	FO	5,621,298	4/15/97	Harvey	320	5	
	FP	5,642,031	6/24/97	Brotto	320	21	
	FQ	5,650,937	7/22/97	Bounaga	364	483	
	FR	5,652,501	7/29/97	McClure et al.	320	17	
	FS	5,675,234	10/7/97	Greene	320	15	
	FT	5,677,077	10/14/97	Faulk	429	90	
	FU	5,699,050	12/16/97	Kanazawa	340	636	
	FV	5,701,089	12/23/97	Perkins	327	772	
↓	FW	5,717,336	2/10/98	Basell et al.	324	430	
	FX	5,757,192	5/26/98	McShane et al.	324	427	

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes      No
	FY						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

FZ

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## U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	GA	5,773,978	6/30/98	Becker	324	430	
	GB	5,789,899	8/4/98	van Phuoc et al.	320	30	
	GC	5,793,359	8/11/98	Ushikubo	345	169	
	GD	5,821,756	10/13/98	McShane et al.	324	430	
	GE	5,831,435	11/3/98	Troy	324	426	
	GF	5,872,443	2/16/99	Williamson	320	21	
	GG	5,914,605	6/22/99	Bertness	324	430	
	GH	5,945,829	8/31/99	Bertness	324	430	
	GI	3,356,936	12/5/67	Smith	324	29.5	
	GJ	5,488,300	1/30/96	Jamieson	324	432	
	GK	6,002,238	12/14/99	Champlin	320	134	
	GL	6,037,777	3/14/00	Champlin	324	430	
	GM	6,051,976	4/18/00	Bertness	324	426	
	GN	6,081,098	6/27/00	Bertness et al.	320	134	
	GO	6,091,245	7/18/00	Bertness	324	426	
	GP	6,104,167	8/15/00	Bertness et al.	320	132	
✓	GQ	6,137,269	10/24/00	Champlin	320	150	

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes	No
AP	GR	DE 29 26 716 B1	1/15/81	Germany				X
AP	GS	0 022 450 A1	1/21/81	EPO				X

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	GT	"Performance of Dry Cells", by C. Hambuechen, Preprint of Am. Electrochem. Soc., April 18-20, 1912, paper No. 19, pgs. 1-5.
AP	GU	"A Bridge for Measuring Storage Battery Resistance", by E. Willihncanz, The Electrochemical Society, preprint 79-20, April 1941, pgs. 253-258.

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	GV	3,562,634	2/9/71	Latner	31	04
	GW	4,379,990	4/12/83	Sievers et al.	322	99
	GX	5,144,218	9/1/92	Bosscha	320	44
	GY	5,315,287	5/24/94	Sol	340	455
	GZ	5,469,043	11/21/95	Cherng et al.	320	31
	HA	5,546,317	8/13/96	Andrieu	364	481
	HB	5,583,416	12/10/96	Klang	320	22
	HC	5,589,757	12/31/96	Klang	320	22
	HD	5,656,920	8/12/97	Cherng et al.	320	31
	HE	5,710,503	1/20/98	Sideris et al.	320	6
	HF	5,760,587	6/2/98	Harvey	324	434
	HG	5,808,469	9/15/98	Kopera	324	43.4
	HH	6,008,652	12/28/99	Theofanopoulos et al.	324	434
	HI	6,009,369	12/28/99	Boisvert et al.	701	99
	HJ	6,031,354	2/29/00	Wiley et al.	320	116
	HK	6,037,751	3/14/00	Klang	320	160
	HL	6,072,299	6/6/00	Kurie et al.	320	112
	HM	6,094,033	7/25/00	Ding et al.	320	132
	HN	6,163,156	12/19/00	Bertness	324	426
✓	HO	6,172,483	1/9/01	Champlin	320	134
	HP	6,172,505	1/9/01	Bertness	324	430

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
AP	HQ	2 749 397	12/5/97	France			X
AP	HR	59215674	12/5/84	Japan			Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	HT	3,989,544	11/2/76	Santo	429	65
	HU	4,745,349	5/17/88	Palanisamy et al.	320	22
	HV	4,876,495	10/24/89	Palanisamy et al.	320	18
	HW	4,937,528	6/26/90	Palanisamy	324	430
	HX	4,968,942	11/6/90	Palanisamy	324	430
	HY	5,179,335	1/12/93	Nor	320	21
	HZ	5,266,880	11/30/93	Newland	320	14
	IA	5,451,881	9/19/95	Finger	324	433
	IB	5,705,929	1/6/98	Caravello et al.	324	430
	IC	5,717,937	2/10/98	Fritz	395	750.01
	ID	5,862,515	1/19/99	Kobayashi et al.	702	63
	IE	5,895,440	4/20/99	Proctor et al.	702	63
	IF	5,929,609	7/27/99	Joy et al.	322	25
	IG	6,072,300	6/6/00	Tsuji	320	116
	IH	4,659,977	4/21/87	Kissel et al.	320	64
	II	4,913,116	4/3/90	Katogi et al.	123	425
	IJ	5,160,881	11/3/92	Schramm et al.	322	7
	IK	5,338,515	8/16/94	Dalla Betta et al.	422	95
	IL	5,537,967	7/23/96	Tashiro et al.	123	792.1
	IM	5,548,273	8/20/96	Nicol et al.	340	439
↓	IN	5,747,909	5/5/98	Syverson et al.	310	156

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
AP	IO	62-180284	8/7/87	Japan			Abstract
AP	IP	7-128414	5/19/95	Japan			Abstract

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	IR	6,114,834	9/5/00	Parise	320	109
	IS	6,150,793	11/21/00	Lesesky et al.	320	104
	IT	3,876,931	4/8/75	Godshalk	324	29.5
	IU	5,347,163	9/13/94	Yoshimura	307	66
	IV	5,939,861	8/17/99	Joko et al.		
	IW	5,339,018	8/16/94	Brokaw	320	35
	IX	5,412,323	5/2/95	Kato et al.	324	429
	IY	5,426,416	6/20/95	Jefferies et al.	340	664
	IZ	5,825,174	10/20/98	Parker	324	106
	JA	5,939,855	8/17/99	Proctor et al.	320	104
	JB	5,254,952	10/19/93	Salley et al.	324	429
	JC	4,217,645	8/12/80	Barry et al.	364	483
	JD	4,633,418	12/30/86	Bishop	364	554
	JE	5,321,626	6/14/94	Palladino	364	483
	JF	5,969,625	10/19/99	Russo	340	636
	JG	6,222,369	4/24/01	Champlin	324	430
	JH	6,225,808	5/1/01	Varghese et al.	324	426
	JI	6,249,124	6/19/01	Bertness	324	426
	JJ	6,259,254	7/10/01	Klang	324	427
	JK	6,262,563	7/17/01	Champlin	320	134
↓	JL	6,294,896	9/25/01	Champlin	320	134
	JM	6,294,897	9/25/01	Champlin	320	153

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
AP	JN	4-8636	1/13/92	Japan			X (Abstract)
AP	JO	63027776	2/5/88	Japan			Abstract Only

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	JP	4,379,989	4/12/83	Kurz et al.	320	26
	JQ	4,680,528	7/14/87	Mikami et al.	320	32
	JR	5,633,985	5/27/97	Severson et al.	395	2.76
	JS	5,739,667	4/14/98	Matsuda et al.	320	5
	JT	4,024,953	5/1977	Nailor, III	206	344
	JU	6,250,973	6/2001	Lowery et al.	439	763
	JV	6,254,438	7/2001	Gaunt	439	755
	JW	6,304,087	10/16/01	Bertness	324	426
	JX	6,310,481	10/30/01	Bertness	324	430
	JY	6,313,607	11/6/01	Champlin	320	132
	JZ	6,313,608	11/6/01	Varghese et al.	32	132
	KA	6,316,914	11/13/01	Bertness	320	134
	KB	5,435,185	7/25/95	Eagan	73	587
	KC	5,445,026	8/29/95	Eagan	73	591
	KD	4,667,143	5/19/87	Cooper et al.	320	22
	KE	4,847,547	7/11/89	Eng, Jr. et al.	320	35
✓	KF	5,574,355	11/12/96	McShane et al.	320	39
	KG	4,663,580	5/5/87	Wortman	320	35

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes	No
AP	KH	WO 99/23738	5/14/99	WIPO			X	
AP	KI	WO 94/05069	3/3/94	PCT			X	

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	KJ	National Semiconductor Corporation, "High Q Notch Filter", 3/69, Linear Brief 5, March 1969.
AP	KK	Burr-Brown Corporation, "Design A 60 Hz Notch Filter with the UAF42", 1/94, AB-071, 1994.
AP	KL	National Semiconductor Corporation, "LMF90-4 <sup>th</sup> -Order Elliptic Notch Filter", 12/94, RRD-B30M115, December 1994.

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## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	KM	6,323,650	11/27/01	Bertness et al.	324	426
	KN	6,329,793	12/11/01	Bertness et al.	320	132
	KO	6,331,762	12/18/01	Bertness	320	134
	KP	6,332,113	12/18/01	Bertness	702	63
	KQ	4,297,639	10/27/81	Branham	324	429
	KR	5,653,659	8/5/97	Kunibe et al.	477	111
	KS	6,161,640	12/19/00	Yamaguchi	180	65.8
	KT	4,351,405	6/28/82	Fields et al.	180	65
	KU	6,359,441	3/16/02	Bertness	324	426
	KV	4,047,091	9/1997	Hutchines et al.	363	59
	KW	5,653,659	8/1997	Kunibe et al.	477	111
	KX	5,637,978	6/1997	Kellett et al.	320	2
	KY	5,095,223	3/1992	Thomas	307	110
↓	KZ	5,194,799	3/1993	Tomantschger	320	2
	LA	5,754,417	5/1998	Nicollini	363	60
	LB					

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes      No
	LC						
	LD						

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	LE	"Alligator Clips with Wire Penetrators" <u>J.S. Popper, Inc.</u> product information, downloaded from <a href="http://www.jspopper.com/">http://www.jspopper.com/</a> , undated
AP	LF	"#12: LM78S40 Simple Switcher DC to DC Converter", <u>ITM e-Catalog</u> , downloaded from <a href="http://www.pcbcafe.com">http://www.pcbcafe.com</a> , undated
AP	LG	"Simple DC-DC Converts Allows Use of Single Battery", <u>Electronix Express</u> , downloaded from <a href="http://www.elexp.com/t_dc-dc.htm">http://www.elexp.com/t_dc-dc.htm</a> , undated

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	LH	5,818,234	10/1998	McKinnon	324	433
	LI	6,140,797	10/2000	Dunn	320	105
	LJ	6,181,545	1/2001	Amatucci et al.	361	502
	LK	6,346,795	2/2002	Haraguchi et al.	320	136
	LM	6,347,958	2/2002	Tsai	439	488
	LN	6,351,102	2/26/02	Troy	320	139
	LO	6,359,441	3/19/02	Bertness	324	426
	LP	6,363,303	3/26/02	Bertness	701	29
	LQ	5,037,778	8/6/91	Stark et al.	437	216
	LR	6,144,185	11/7/00	Dougherty et al.	320	132
	LS	5,711,648	1/27/98	Hammerslag	414	786
	LT	5,927,938	7/27/99	Hammerslag	414	809
	LU	5,951,229	9/14/99	Hammerslag	414	398
	LV	5,961,561	10/5/99	Wakefield, II	701	29
	LW	5,961,604	10/5/99	Anderson et al.	709	229
	LX	6,236,332	5/22/01	Conkright et al.	340	825.06
	LY	6,351,102	2/26/02	Troy	320	139
↓	LZ	5,821,757	10/13/98	Alvarez et al.	324	434
	MA	6,167,349	12/26/00	Alvarez	702	63

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
	MB						

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	MC	"DC-DC Converter Basics", <u>Power Designers</u> , downloaded from <a href="http://www.powerdesigners.com/InforWeb.design_center/articles/DC-DC/converter.shtm">http://www.powerdesigners.com/InforWeb.design_center/articles/DC-DC/converter.shtm</a> , undated
	MD	

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP ME	4,665,370	5/1987	Holland	324	429	
	MF 4,361,809	11/1982	Bil et al.	324	426	
	MG 6,392,414	5/21/02	Bertness	324	429	
	MH 6,417,669	7/9/02	Champlin	324	426	
	MI 6,424,158	7/23/02	Klang	324	433	
	MJ 6,441,585	8/17/02	Bertness	320	132	
	MK 6,445,158	9/3/02	Bertness et al.	320	104	
	ML 6,384,608	5/7/02	Namaky	324	425	
	MM 6,388,448	5/14/02	Cervas	324	426	
	MN 6,307,349	10/23/01	Koenck et al.	320	112	
	MO 6,411,098	6/25/02	Laletin	324	436	
	MP 6,456,045	9/24/02	Troy et al.	320	139	
	MQ 6,466,025	10/15/02	Klang	324	429	
	MR 6,466,026	10/15/02	Champlin	324	430	
	MS 4,564,798	1/14/86	Young	320	6	
↓	MT 5,563,496	10/8/96	McClure	320	48	
	MU 5,796,239	8/18/98	van Phuoc et al.	320	107	

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
AP	MV	RU 2089015-C1	8/27/97	Russia			Abstract Only
AP	MW	09061505	3/7/97	Japan			Abstract Only
AP	MX	10056744	2/24/98	Japan			Abstract Only

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	MY	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US02/29461.
AP	MZ	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/07546.

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	NA	4,888,716	12/19/89	Ueno	364	550
	NB	6,495,990 B2	12/17/02	Champlin	320	132
	NC	4,385,269	5/24/83	Aspinwall et al.	320	14
	ND	4,686,442	8/11/87	Radomski	320	17
	NE	6,061,638	5/9/00	Joyce	702	63
	NF	6,359,442	3/19/02	Henningson et al.	324	426
	NG	5,541,489	7/30/96	Dunstan	320	2
	NH	6,424,157	7/23/02	Gollomp et al.	324	430
	NI	6,534,993	3/18/03	Bertness	324	433
	NJ	6,544,078	4/8/03	Palmisano et al.	439	762
	NK	6,556,019	4/29/03	Bertness	324	426
	NL	6,566,883	5/20/03	Vonderhaar et al.	324	426
	NM	6,586,941	7/1/03	Bertness et al.	324	426
	NN	6,597,150	7/22/03	Bertness et al.	320	104
↓	NO	2002/0171428	11/21/02	Bertness	324	426
	NP	6,263,268	7/17/01	Nathanson	701	29

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
AP	NQ	WO 00/67359	11/9/00	WIPO			X
AP	NR	WO 01/51947	7/19/01	WIPO			X
AP	NS	WO 98/04910	2/5/98	WIPO			X
AP	NT	WO 00/62049	10/19/00	WIPO			X
	NU						
	NV						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	NW	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/06577.
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EXAMINER: /Aaron Piggush/ DATE CONSIDERED: 11/30/2006

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FORM PTO-1449		Atty. Docket No.: C382.12-0178	Serial No.: 10/791,141
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		Applicant:	
		Kevin I. Bertness	
		Filing Date	Group Art:
		March 2, 2004	

## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP OA	5,410,754	4/1995	Klotzbach et al.	370	85.13	
OB	5,654,623	8/1997	Shiga et al.	320	48	
OC	6,055,468	4/2000	Kaman et al.	701	29	
OD	2003/0025481	2/2003	Bertness	320	155	
OE	5,313,152	5/1994	Wozniak et al.	320	118	
OF	2003/0184306	10/2003	Bertness et al.	324	426	
OG	2004/0000891	1/2004	Raichle et al.	320	107	
OH	3,750,011	7/1973	Kreps	324	29.5	
OI	5,159,272	10/1992	Rao et al.	324	429	
OJ	5,325,041	6/1994	Briggs	320	44	
OK	6,526,361	2/2003	Jones et al.	702	63	
OL	6,667,624	12/2003	Raichle et al.	324	522	
OM	2002/0010558	1/24/02	Bertness et al.	702	63	
ON	2002/0176010	11/28/02	Wallach et al.	348	229.1	
OO	3,652,341	3/28/1972	Halsall et al.	136	176	
OP	5,747,967	5/5/1998	Muljadi et al.	320	39	

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		Document No.	Date	Country	Class	Sub Class	Translation Yes No
AP	OQ	JP 11103503 A	4/1999	Japan			X (Abstract)
AP	OR	WO 01/59443	2/9/01	WIPO			X
AP	OS	GB 2 246 916 A	10/8/90	Great Britian			
	OT						
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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	OW	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/07837.
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EXAMINER: /Aaron Piggush/ DATE CONSIDERED: 11/30/2006

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		Filing Date March 2, 2004	Group Art:

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	OA 6,628,011	9/30/03	Droppo et al.	307	43	
	OB 5,780,980	7/14/98	Naito	318	139	
	OC 5,412,308	5/2/95	Brown	323	267	
	OD 6,222,342	4/24/01	Eggert et al.	320	105	
	OE 6,679,212	1/20/04	Kelling	123	179.28	
	OF 5,850,113	12/15/98	Weimer et al.	307	125	
	OG 6,242,887	6/5/01	Burke	320	104	
	OH 6,238,253	5/29/01	Qualls	439	759	
	OI 4,056,764	11/1/77	Endo et al.	320	3	
	OJ 6,005,759	12/21/99	Hart et al.	361	66	
	OK 6,064,372	5/16/00	Kahkoska	345	173	
	OL 5,323,337	6/21/94	Wilson et al.	364	574	
	OM 5,978,805	11/2/99	Carson	707	10	
	ON 6,600,815	7/29/03	Walding	379	93.07	
▼	OO 4,933,845	6/12/90	Hayes	364	200	
	OP 6,618,644	9/9/03	Bean	700	231	

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes      No
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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	OA	5,982,138	11/9/99	Krieger	320	105
	OB	4,620,767	11/4/86	Woolf	339	255
	OC	4,934,957	6/19/90	Bellusci	439	504
	OD	5,772,468	6/30/98	Kowalski et al.	439	506
	OE	5,108,320	4/28/92	Kimber	439	883
	OF	5,453,027	9/26/95	Buell et al.	439	433
	OG	5,865,638	2/2/99	Trafton	439	288
	OH	3,796,124	3/12/74	Crosa	85	36
	OI	4,280,457	7/28/81	Bloxham	123	198
	OJ	4,160,916	7/10/79	Papasideris	307	10
	OK	6,356,042	3/12/02	Kahlon et al.	318	138
	OL	6,259,170	7/10/01	Limoge et al.	307	10.8
	OM	6,081,109	6/27/00	Seymour et al.	324	127
	ON	6,031,368	2/29/00	Klippel et al.	324	133
↓	OO	6,211,651	4/3/01	Nemoto	320	133
	OP	6,046,514	4/4/00	Rouillard et al.	307	77

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes	No
	OQ							
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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	OW	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/41561.
EXAMINER:	/Aaron Piggush/	DATE CONSIDERED: 11/30/2006

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		Kevin I. Bertness	
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		March 2, 2004	

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AP	OA	6,531,848	3/11/03	Chitsazan et al.	320	153
	OB	4,023,882	5/17/77	Pettersson	339	96
	OC	2,000,665	5/7/35	L.P. Neal	173	324
	OD	6,158,000	12/5/00	Collins	713	1
	OE	5,745,044	4/28/98	Hyatt, Jr. et al.	340	825.31
	OF	5,578,915	11/26/96	Crouch, Jr. et al.	320	48
	OG	5,592,094	1/7/97	Ichikawa	324	427
	OH	6,275,008	8/14/01	Arai et al.	320	132
	OI	5,872,453	2/15/99	Shimoyama et al.	324	431
	OJ	5,321,627	6/14/94	Reher	364	483
	OK	4,949,046	8/14/90	Seyfang	324	427
	OL	4,926,330	5/1990	Abe et al.	364	424.03
	OM	2002/0050163	5/2002	Makhija et al.	73	116
	ON	2003/0184262	10/2003	Makhija	320	130
	OO	2004/0000891	1/2004	Raichle et al.	320	107
	OP	2004/0000590	1/2004	Raichle et al.	235	462.01
	OQ	2004/0000893	1/2004	Raichle et al.	320	135
	OR	2004/0000913	1/2004	Raichle et al.	324	426
	OS	2004/0000915	1/2004	Raichle et al.	324	522
	OT	2004/0002824	1/2004	Raichle et al.	702	63
▼	OU	2004/0002825	1/2004	Raichle et al.	702	63
	OV	2004/0002836	1/2004	Raichle et al.	702	188

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		Document No.	Date	Country	Class	Sub Class	Translation Yes No
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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	OX	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/27696.
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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		Applicant:  Kevin I. Bertness	
		Filing Date	Group Art:
		March 2, 2004	

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## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	PT	"Programming Training Course, 62-000 Series Smart Engine Analyzer", Testproducts Division, Kalamazoo, Michigan, pgs. 1-207, (1984).
AP	PU	"Operators Manual, Modular Computer Analyzer Model MCA 3000", Sun Electric Corporation, Crystal Lake, Illinois, pgs. 1-1 - 14-13, (1991).
AP	PV	"Professional BCS System Analyzer Battery-Charger-Starting", pgs. 2-8, (2001).

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